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1 Intuitive and Interactive Modification of Large Finite Element Models
   Dirc Rose, Katrin Bidmon, Thomas Ertl
   October 2004 VI S '04: Proceedings of the conference on Visualization '04
   Publisher: IEEE Computer Society
   Full text available: 📄 pdf(463.06 KB) Additional Information: full citation, abstract, references

   Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 46, Citation Count: 0

   Virtual prototyping is increasingly replacing real mock-ups and experiments in industrial
   product development. Part of this process is the simulation of structural and functional
   properties, which is in many cases based on Finite Element Analysis (FEA). ...

   Keywords: finite element modeling, interaction, manipulators, autostereoscopy

2 Recreational computer graphics
   Andrew Glassner
   July 2006 SI GGRAPH '06: ACM SIGGRAPH 2006 Courses
   Publisher: ACM
   Full text available: 📄 pdf(13.82 MB) Additional Information: full citation, abstract, index terms

   Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 322, Citation Count: 0

   Computer graphics isn't just a bunch of algorithms and programs: it's a gymnasium for
   the visual imagination, and a tool for investigating the world around us. Graphics can
   help us understand nature, invent new kinds of patterns and shapes, build up ...

3 Video-based rendering
   Marcus Magnor, Marc Pollefeys, German Cheung, Wojciech Matusik, Christian Theobalt
   July 2005 SI GGRAPH '05: ACM SIGGRAPH 2005 Courses
   Publisher: ACM
   Full text available: 📄 pdf(5.15 MB) Additional Information: full citation

   Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 329, Citation Count: 0

4 Understanding performance in coliseum, an immersive videoconferencing system

H. Harlyn Baker, Nina Bhatti, Donald Tanguay, Irwin Sobel, Dan Gelb, Michael E. Goss, W. Bruce Culbertson, Thomas Malzbender
May 2005 ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP), Volume 1 Issue 2
Publisher: ACM

Full text available: pdf(11.79 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 96, Citation Count: 1

Coliseum is a multiuser immersive remote teleconferencing system designed to provide collaborative workers the experience of face-to-face meetings from their desktops. Five cameras are attached to each PC display and directed at the participant. From ...

Keywords: 3D virtual environments, Telepresence, network applications, performance measurement, streaming media, videoconferencing, view synthesis

5   Automatic trace analysis for logic of constraints
Xi Chen, Harry Hsieh, Felice Balarin, Yosinori Watanabe
June 2003 DAC '03: Proceedings of the 40th conference on Design automation
Publisher: ACM

Full text available: pdf(187.30 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 34, Citation Count: 3

Verification of system designs continues to be a major challenge today. Simulation remains the primary tool for making sure that implementations perform as they should. We present algorithms to automatically generate trace checkers from formulas written ...

Keywords: logic of constraints, performance constraint, simulation checker, trace analysis

6   Surf's up: the making of an animated documentary
Rob Bredow, David Schaub, Daniel Kramer, Matthew Hausman, Danny Dimian, R. Stirling Duguid
August 2007 SIGGRAPH '07: ACM SIGGRAPH 2007 courses
Publisher: ACM

Full text available: pdf(152.86 MB) Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 671, Citation Count: 0

The CG animated documentary Surf's Up called for unique production techniques to be leveraged throughout the creation of the film. This half day course presents an in-depth look at several of the key aspects of the production: • Integration ...

7   At the Forge
Reuven M. Lerner
September 1999 Linux Journal, Volume 1999 Issue 65es
Publisher: Specialized Systems Consultants, Inc.

Full text available: html(21.98 KB) Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 12, Citation Count: 0

Dynamic Graphics: Generating graphics, charts and graphs for your web site is easy

following Mr. Lerner's instructions.

8 Setting up X11: A no-tears guide to XFree86 configuration.
   Greg Lehey
   July 1995 Linux Journal, Volume 1995 Issue 15es
   Publisher: Specialized Systems Consultants, Inc.
   Full text available: html(24.42 KB) Additional Information: full citation, index terms

   Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 6, Citation Count: 0

9 An efficient intra deinterlacing algorithm with gradient detection and window
   matching
   Wonki Kim, Soonjong Jin, Jechang Jeong
   September 2007 MULTIMEDIA '07: Proceedings of the 15th international conference on
                  Multimedia
   Publisher: ACM
   Full text available: pdf(811.27 KB) Additional Information: full citation, abstract, references, index terms

   Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 68, Citation Count: 0

   This paper presents a novel intra deinterlacing algorithm (NID) based on content
   adaptive interpolation. The NID consists of three steps: pre-processing, content
   classification, and content adaptive interpolation. There are also three main
   interpolation ...

   Keywords: deinterlacing, gradient detection, interpolation, window matching

10 Dynamic program insertion in high quality video over IP
   Taehyun Kim, Jack Brassil
   June 2003 NOSSDAV '03: Proceedings of the 13th international workshop on Network and
             operating systems support for digital audio and video
   Publisher: ACM
   Full text available: pdf(269.10 KB) Additional Information: full citation, abstract, references, index terms

   Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 91, Citation Count: 0

   We introduce an overlay network architecture and signaling mechanism that permit
   program insertions in live, high quality video streams transmitted over IP networks. We
   describe the implementation of an application proxy that dynamically inserts pre-
   recorded ...

   Keywords: content delivery networks (CDNs), digital television (DTV), multimedia
   signaling, program and system information protocol (PSIP), program cues, real-time
   transport protocol (RTP), video streaming

11 A survey of research and practices of Network-on-chip
   Tobias Bjerregaard, Shankar Mahadevan
   June 2006 ACM Computing Surveys (CSUR), Volume 38 Issue 1
   Publisher: ACM
   Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, index terms

   Bibliometrics: Downloads (6 Weeks): 121, Downloads (12 Months): 1911, Citation Count: 4

The scaling of microchip technologies has enabled large scale systems-on-chip (SoC).
Network-on-chip (NoC) research addresses global communication in SoC, involving (i) a
move from computation-centric to communication-centric design and (ii) the
implementation ...

Keywords: Chip-area networks, GALS, GSI design, NoC, OCP, SoC, ULSI design,
communication abstractions, communication-centric design, interconnects, network-on-
chip, on-chip communication, sockets, system-on-chip

12 Two-state, reversible, universal cellular automata in three dimensions
Daniel B. Miller, Edward Fredkin
May 2005 CF '05: Proceedings of the 2nd conference on Computing frontiers
Publisher: ACM

Full text available: 📄 pdf(467.07 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 71, Citation Count: 1

A novel two-state, Reversible Cellular Automata (RCA) is described. This three-
dimensional RCA is shown to be capable of universal computation. Additionally, evidence
is offered that this RCA is capable of universal construction.

Keywords: adiabatic computing, billiard ball model, cellular automata, massively
parallel, nanoscale computing, nanotech, reversible computation, reversible computing,
reversible logic

13 Islamic star patterns in absolute geometry
Craig S. Kaplan, David H. Salesin
April 2004 ACM Transactions on Graphics (TOG), Volume 23 Issue 2
Publisher: ACM

Full text available: 📄 pdf(1.94 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 208, Citation Count: 3

We present *Najm*, a set of tools built on the axioms of absolute geometry for exploring
the design space of Islamic star patterns. Our approach makes use of a novel family of
tilings, called "inflation tilings," which are particularly well suited ...

Keywords: Non-Euclidean geometry, symmetry, tessellations, tilings

14 Compressed video transmission over digital networks: analysis and design
Qing Tang, Jesse S. Jin
May 2003 VIP '02: Selected papers from the 2002 Pan-Sydney workshop on
Visualisation - Volume 22, Volume 22
Publisher: Australian Computer Society, Inc.

Full text available: 📄 pdf(185.77 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 58, Citation Count: 0

In the past two decades, new technologies in digital video compression have paved the
way for video transmission. This is providing an environment for the widespread
availability of a wide range of real video networking services.The purpose of this
paper ...

Keywords: MPEG, interoperability, multiplexing, packetizing, synchronizing, transcoding

and error resilience, video transmission

15 Introduction to SIGGRAPH and computer graphics
　　Mike Bailey, Andrew Glassner
　　August 2007 SIGGRAPH '07: ACM SIGGRAPH 2007 courses
　　Publisher: ACM
　　Full text available: pdf(17.71 MB)　　Additional Information: full citation, abstract, references

　　Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 398, Citation Count: 0

　　　The SIGGRAPH conference is an exciting event, but it is often an intimidating experience
　　　for first-time attendees. There are so many new terms, new concepts, and new products
　　　to try to understand. It is like standing in a room with 100 doors and having ...

16 Postproduction re-illumination of live action using interleaved lighting
　　Andrew Gardner, Chris Tchou, Andreas Wenger, Paul Debevec, Tim Hawkins
　　August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Posters
　　Publisher: ACM
　　Full text available: pdf(74.90 KB)　　Additional Information: full citation, references

　　Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 12, Citation Count: 0

17 Propositional computability logic I
　　Giorgi Japaridze
　　April 2006 ACM Transactions on Computational Logic (TOCL), Volume 7 Issue 2
　　Publisher: ACM
　　Full text available: pdf(209.19 KB)　　Additional Information: full citation, abstract, references, cited by, index
　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　terms

　　Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 78, Citation Count: 4

　　　In the same sense as classical logic is a formal theory of truth, the recently initiated
　　　approach called *computability logic* is a formal theory of computability. It understands
　　　(interactive) computational problems as games played by a machine ...

　　　Keywords: Computability logic, computational resources, game semantics, interactive
　　　algorithms, linear logic

18 Computation and performance issues in coliseum: an immersive videoconferencing
　　system
　　H. Harlyn Baker, Nina Bhatti, Donald Tanguay, Irwin Sobel, Dan Gelb, Michael E. Goss, John
　　MacCormick, Kei Yuasa, W. Bruce Culbertson, Thomas Malzbender
　　November 2003 MULTIMEDIA '03: Proceedings of the eleventh ACM international
　　　　　　　　　　　　conference on Multimedia
　　Publisher: ACM
　　Full text available: pdf(824.55 KB)　　Additional Information: full citation, abstract, references, cited by, index
　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　terms

　　Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 47, Citation Count: 5

　　　Coliseum is a multiuser immersive remote teleconferencing system designed to provide
　　　collaborative workers the experience of face-to-face meetings from their desktops. Five
　　　cameras are attached to each PC display and directed at the participant. From ...

Keywords: telepresence, videoconferencing, view synthesis

19 Fluid samplers: sampling music keyboards having fluidly continuous action and sound, without being electrophones
Steve Mann, Ryan E. Janzen
September 2007 MULTIMEDIA '07: Proceedings of the 15th international conference on Multimedia
Publisher: ACM
Full text available: pdf(1.67 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 68, Citation Count: 0

Present-day sampling music keyboards are electronic instruments that fall under the last (5th) category of the Hornbostel Sachs musical instrument classification scheme. Conversely, we first propose an entirely acoustic/mechanical mellotron-like sampling ...

Keywords: fluid sampling, fluid user-interfaces, hydraulophones, interactive art, tangible user interfaces, water-based immersive multimedia

20 Introduction to computer graphics
Mike Bailey, Andrew Glassner
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
Publisher: ACM
Full text available: pdf(15.45 MB)   Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 309, Citation Count: 0

Computer graphics is an exciting field of endeavor, but it is often difficult for a newcomer to get started. This course is that opportunity! The topics being presented will address many areas within computer graphics and treat each from the point of ...

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